

# Converting Colors

$Y_{xy}(15.7696, 0.2225, 0.1266)$

Have a look what the booklet for  
Yxy(15.7696, 0.2225, 0.1266)  
contains.

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**Color**

**Yxy(15.7548, 0.2223, 0.1267)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8946EC
RGB	137, 70, 236
RGB Percent	54%, 27%, 93%
CMY	0.4629, 0.7254, 0.0745
CMYK	0.42, 0.70, 0.00, 0.07
HSL	264°, 81%, 60%
HSV	264°, 70%, 93%
XYZ	27.6424, 15.7548, 80.9501
YIQ	108.9570, -13.3540, 65.8300

# Conversions

## Conversions Part 2

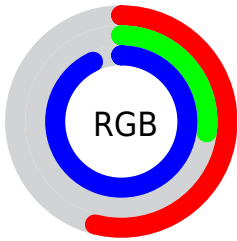
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	137, 70, 236
Decimal	8996588
CIE Lab	46.65, 61.22, -73.16
CIE LCh	47, 95.399, 309.922
Yxy	15.7548, 0.2223, 0.1267
Android (android.graphics.Color)	4287186668 (0xFF8946EC)
YUV	108.9570, 62.6322, 24.5937
Hunter-Lab	39.6923, 54.8489, -93.1337

# Details

The Yxy color **15.7548, 0.2223, 0.1267** is a dark color, and the websafe version is hex **6633CC**. The color can be described as middle muted purple. A complement of this color would be **68.8851, 0.3571, 0.5181**, and the grayscale version is **15.1037, 0.3127, 0.3290**.

A 20% lighter version of the original color is **33.2562, 0.2677, 0.1849**, and **4.9865, 0.1894, 0.0842** is the 20% darker color. If you saturate the color by 10%, you get **12.2458, 0.2076, 0.1047**, and if you desaturate by 10%, it is **20.5797, 0.2377, 0.1534**.

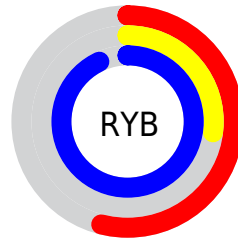
# Distribution



Red (54%)

Green (27%)

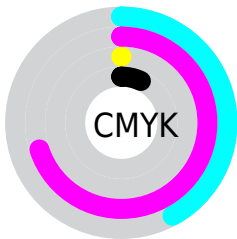
Blue (93%)



Red (54%)

Yellow (27%)

Blue (93%)

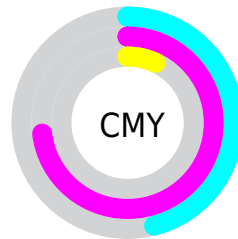


Cyan (42%)

Magenta (70%)

Yellow (0%)

Black (7%)



Cyan (46%)

Magenta (73%)


Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 15.7548, 0.2223, 0.1267 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 15.7548, 0.2223, 0.1267 by changing the saturation by 10% instead.





 15.7548, 0.2223,  
0.1267


 15.7548, 0.2223,  
0.1267


227.8905, 0.2750,  
0.2215


 9.3508, 0.2079,  
0.1068


 36.1720, 0.2426,  
0.1586


 4.9707, 0.1893,  
0.0841


 50.9540, 0.2500,  
0.1714


 2.2301, 0.1647,  
0.0587


 69.2975, 0.2560,  
0.1826

 0.7363, 0.1324,  
0.0320

 91.5868, 0.2611,  
0.1924

 0.0000, 0.0919,  
0.0000

 118.2063, 0.2654,  
0.2010

 0.0000, 0.0139,  
0.0000

149.5405, 0.2690,

 0.0000, 0.0000,

0.2086

0.0000

185.9738, 0.2722,  
0.2154

■ 15.7548, 0.2223,  
0.1267

■ 15.7548, 0.2223,  
0.1267

■ 12.2458, 0.2076,  
0.1047

■ 20.5797, 0.2377,  
0.1534

■ 9.9004, 0.1944,  
0.0886

■ 26.8460, 0.2530,  
0.1832

■ 8.4985, 0.1835,  
0.0784

■ 34.6659, 0.2676,  
0.2144

■ 44.1394, 0.2810,  
0.2453

■ 55.3582, 0.2930,  
0.2750

68.4071, 0.3034,  
0.3028

83.3652, 0.3124,  
0.3282

97.8334, 0.3204,  
0.3475

98.8369, 0.3238,  
0.3473

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



15.7548, 0.1226, 0.1081



15.7548, 0.2223, 0.1267



15.7548, 0.3970, 0.1768

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



15.7548, 0.2223, 0.1267



15.7548, 0.5726, 0.4274



15.7548, 0.0900, 0.3414

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



15.7548, 0.2223, 0.1267



68.8851, 0.3571, 0.5181

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



15.7548, 0.1717, 0.6053



15.7548, 0.2223, 0.1267



15.7548, 0.4405, 0.5595

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



15.7548, 0.2223, 0.1267



15.7548, 0.6419, 0.3290



15.7548, 0.2986, 0.6795



15.7548, 0.0663, 0.1800



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



15.7548, 0.2223, 0.1267



15.7548, 0.5295, 0.2248



15.7548, 0.2986, 0.6795



15.7548, 0.1098, 0.4270

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



15.7553, 0.2223, 0.1267



64.8981, 0.2921, 0.2728



35.9667, 0.2096, 0.2357



13.0610, 0.2889, 0.2647



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



15.7553, 0.2223, 0.1267



13.3170, 0.2021, 0.0975



25.5651, 0.3029, 0.1659



14.8453, 0.3043, 0.3051



4.7548, 0.1851, 0.0793



0.4281, 0.2006, 0.0879



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



25.0867, 0.4027, 0.2298



25.6828, 0.4291, 0.2242



62.4490, 0.3085, 0.5504



15.2050, 0.3200, 0.3150



10.9135, 0.4551, 0.2281

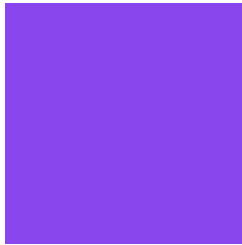


0.8759, 0.4314, 0.2150



# Previews

## White Background



This preview shows how the Yxy color 15.7548, 0.2223, 0.1267 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

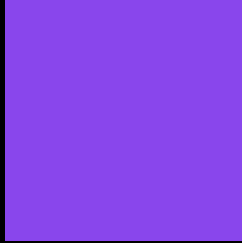
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 15.7548, 0.2223, 0.1267 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

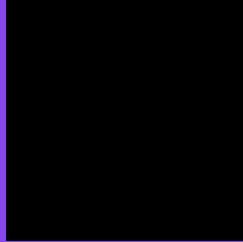
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 15.7548, 0.2223, 0.1267**

## **Background**



This preview shows how black text looks on a background with the Yxy color 15.7548, 0.2223, 0.1267.



This preview shows how white text looks on a background with the Yxy color 15.7548, 0.2223, 0.1267.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

15.7548, 0.2223, 0.1267

### Protanopia

15.9516, 0.1743, 0.1475

### Deuteranopia

15.7504, 0.1846, 0.1845



## Tritanopia

15.5603, 0.3029, 0.3108

# Trichromacy



## Original Color

15.7548, 0.2223, 0.1267



## Protanomaly

14.3407, 0.1774, 0.1308



## Deuteranomaly

13.8806, 0.1835, 0.1479



## Tritanomaly

14.7507, 0.2662, 0.2149

# Monochromacy



## Original Color

15.7548, 0.2223, 0.1267



## Achromatopsia

15.2926, 0.3127, 0.3290



## Achromatomaly

14.4729, 0.2712, 0.2228

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 15.7548, 0.2223, 0.1267 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(137, 70, 236)` looks like.

```
.text, #text, p{  
    color:rgb(137, 70, 236)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(137, 70, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 70, 236) }
```

## Border

The CSS property to change the border of an element to Yxy 15.7548, 0.2223, 0.1267 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(137, 70, 236) }
```

If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(137, 70, 236) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(137, 70, 236) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 70, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 70, 236);  
box-shadow:4px 4px 4px 4px rgb(137, 70,  
236) }
```



# Background

The CSS property to change the background color of an element to Yxy 15.7548, 0.2223, 0.1267 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 70, 236) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(137, 70,  
236) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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